### How to identify predators that can help control insect and mite pests

#### **Green and Brown Lacewings**





Inches

- Light brown or green bodies with see-through wings
- Adults and larvae feed on mealybugs, psyllids, thrips, mites, whiteflies, aphids, small caterpillars, leafhoppers, and insect eggs

### Flower Flies (Hover Flies, Syrphid Flies)



- Black and yellow bands on abdomen look like honeybees, but smooth and shiny with only two wings
- Larvae feed on aphids and other small, soft- bodied insects





### Ladybird Beetles



It is the policy of the University of California (UC) and the UC Division of Agriculture & Natural Resources not to engage in discrimination against or harassment of any person in any of its programs or activities (Complete nondiscrimination policy statement can be found at http://ucanr.edu/sites/anrstaff/files/215244.pdf )

- Orange to red front wings with black spots, and larvae are long and blackish with orange bands or spots
- Larvae and adults eat whiteflies, aphids, soft-bodied insects, and insect eggs

### **Soldier Beetles**



#### Actual Size: 0.3 - 0.6 inches



- Long red, orange or yellow heads with black wing covers
- Feed on aphids, pollen or nectar



- Yellowish, green or brown long bodied insects with grasping forelegs
- Feed on pests and other beneficials



It is the policy of the University of California (UC) and the UC Division of Agriculture & Natural Resources not to engage in discrimination against or harassment of any person in any of its programs or activities (Complete nondiscrimination policy statement can be found at http://ucanr.edu/sites/anrstaff/files/215244.pdf )

### **Praying Mantis**

### **Predatory Mites**



- Tiny, cream to red colored, with 8 legs like spiders and ticks
- Feed on other mites, eggs, and pollen

### Predators in the True Bug Order (Hemiptera or Heteroptera):

The following predatory insects all belong to the order of true bugs, and can be recognized by the "X" pattern on their backs. This order also contains many pest species, but the insects shown here are all predators and eat other insects as their prey.

### **Assassin Bugs**



- Slender, often black, brown, or red
- Eats caterpillars, leafhoppers, aphids, and other true bugs

### Actual size: 0.2 to 1.6 inches



It is the policy of the University of California (UC) and the UC Division of Agriculture & Natural Resources not to engage in discrimination against or harassment of any person in any of its programs or activities (Complete nondiscrimination policy statement can be found at http://ucanr.edu/sites/anrstaff/files/215244.pdf )

#### **Damsel Bugs**



- Yellow, gray and light brown, long head with long antennae
- Adults and larvae feed on thrips, mites, aphids, other bugs, small caterpillars, and leafhoppers

#### **Bigeyed Bugs**



- Oval, brown or yellow, wide head with large bulging eyes
- Eats eggs, caterpillars, flea beetles, small bugs and mites

### **Minute Pirate Bugs**



- Very small, with purplish black and white checkered pattern
- Adults and nymphs feed on insect eggs and small insects such as psyllids, thrips, mites, aphids, whiteflies, and small caterpillars

It is the policy of the University of California (UC) and the UC Division of Agriculture & Natural Resources not to engage in discrimination against or harassment of any person in any of its programs or activities (Complete nondiscrimination policy statement can be found at http://ucanr.edu/sites/anrstaff/files/215244.pdf )